

Plenco 7200 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

PLENCO 07200 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength, good powder properties and excellent cosmetic properties. UL recognized under component file E40654. 07200 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7200-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.530 g/cc	0.0191 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.43 %	0.43 %	ASTM D570
Linear Mold Shrinkage	0.0087 cm/cm	0.0087 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	85	85	ASTM D785
Tensile Strength, Ultimate	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	0.62 %	0.62 %	ASTM D638
Tensile Modulus	8.10 GPa	1170 ksi	ASTM D638
Flexural Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	6.70 GPa	972 ksi	ASTM D790
Compressive Strength	205 MPa	29700 psi	ASTM D695
Izod Impact, Notched	0.223 J/cm	0.418 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.226 J/cm ²	1.08 ft-lb/in ²	ASTM D256
Impact	157	157	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	193 °C	379 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	

Shrinkage Thermal Properties	0.43 % Metric	0.43 % English	72 hr, 120°C; ASTM D1299 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+11 ohm-cm	1.70e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	9.60 kV/mm	244 kV/in	Short Time; ASTM D149
Dissipation Factor	0.059	0.059	ASTM D150
Arc Resistance	76 sec	76 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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